

Burnett Oil Co., Inc.

Gissler B #88

REMEDIATION WORK PLAN

API No. 30-015-40847

Release Date: January 16, 2015

Unit Letter I, Section 11, Township 17 South, Range 30 East

NMOCD - 2RP-2743

January 29, 2015

Prepared by:

Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

Heather Patterson
Environmental Specialist
NM Oil Conservation District – Division 2
811 S. First St.
Artesia, NM 88210

RE: Burnett Oil Co., Inc. Gissler B #88 – Remediation Work Plan
UL/I, Section 11, T17S, R30E
API No. 30-015-40847

Mrs. Patterson,

Burnett Oil Co., Inc. has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located northeast of Loco Hills NM, in Eddy County. The leak site resulted from a hydrocarbon and produced water leak. The source of the leak was due to liner on the polish rod slipped. A C-141 was submitted to the NMOCD on January 19, 2015 (2RP-2743).

Site Assessment and Delineation

On January 22, 2015 DFSI personnel mapped the impacted area and obtained surface and delineation samples of the leak area on January 27, 2015. Samples points included SP1-SP10.

Field samples were taken on ten sample points, each sample was tested for chlorides levels as well as TPH. The TPH samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples found under the BLM/NMOCD standards, were taken to Cardinal Lab of Hobbs to obtain confirmation samples. And the results confirmed that bottom samples of each sample point were as follows:

SP1: 1' – 80 mg/kg Cl, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP2: 2' – 32 mg/kg Cl, <0.300 mg/kg BTEX, 637.8 mg/kg TPH
SP3: 1' – 64 mg/kg Cl, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP4: 1' – 224 mg/kg Cl, <0.300 mg/kg BTEX, 628.40 mg/kg TPH
SP5: 1' – 48 mg/kg Cl, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP6: 1' – 144 mg/kg Cl, <0.300 mg/kg BTEX, <10 mg/kg TPH

SP7: 1' - <16 mg/kg Cl, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP8: 1' - 32 mg/kg Cl, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP9: 2' - <16 mg/kg Cl, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP10: 1' - 224 mg/kg Cl, <0.300 mg/kg BTEX, <10 mg/kg TPH

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 300 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI on behalf of Burnett we would like to propose the following:

The entire impacted area is 23,741 sq. ft. Burnett would like to propose a 6" scrape on the impacted pad area with the addition to excavate the SP9 area to 2'bgs and 1' excavation in the pasture area. The contaminated soil will be hauled to Lea Land and backfill with clean imported soil. The impacted area in the pasture will be tilled and reseeded with the recommended BLM seed.

Following the approval of the plan above and after the remediation has taken place, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



Natalie Gladden
Environmental Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)602-1786
Fax: (575)964-8396
Email: ngladden@diversifiedfsi.com

cc Jeff Robertson
NM Bureau of Land Management

Attachments: Initial Form C-141
Site/Sample Map
Sample Data
Site Photo Page
Lab Analytical Data

Site Diagram

Burnett, Gissler B 88
Eddy County, NM
Drafted By: Lance Crenshaw, 1-22-15

0 0.005 0.01 0.02 Miles

Spill Area:
23,741 sq. ft.

Legend

Misc_points

Types

- Electrical Box
- Power Pole
- Headers
- Injection
- Pumpjacks
- Tanks
- Valves
- Other
- sample_pts
- Source

Pipeline

Type

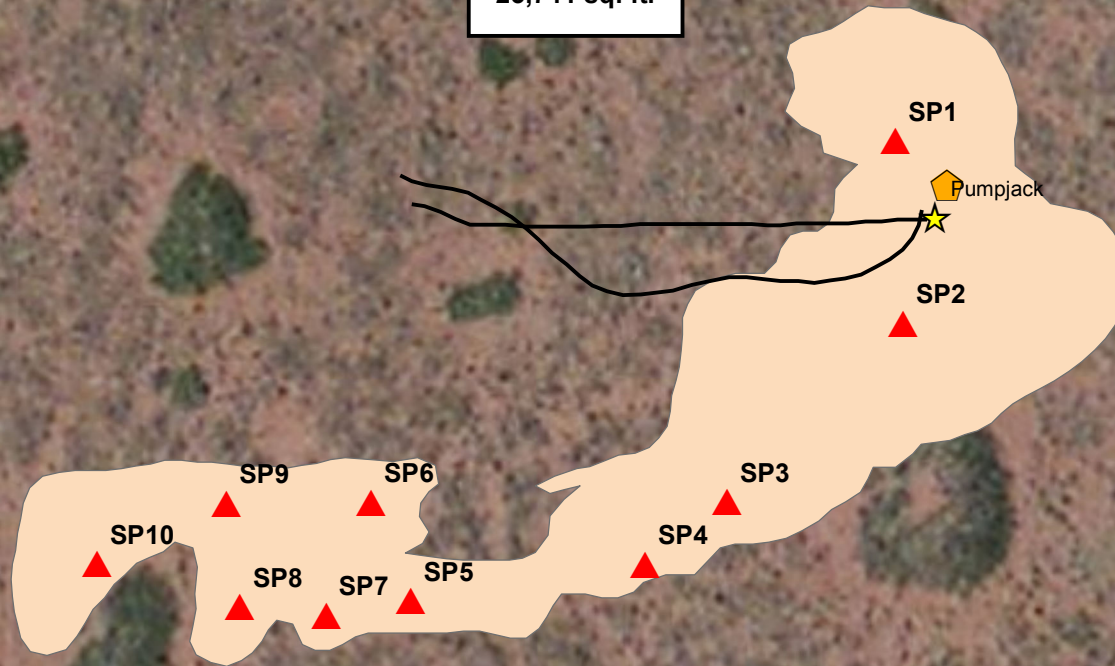
- Above Ground Line
- Buried Line

Spill

- <all other values>

Spill_Media

- Oil and Produced H2O
- Oil
- Other
- Produced Water



Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental

DFSI

Services

Office: 575-964-8394
Fax: 575-964-8396

Cell: 575-441-2359
Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, and the GIS User Community

Company Name:	Burnett Oil Co., Inc.
Location Name:	Gissell B #88

SP Date: 1/27/2015

Rel Date: 1/16/2015

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

[illegible]

**BTEX cannot be field tested

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples





January 29, 2015

JOHNNY TITSWORTH

Burnett Oil Co., Inc

801 Cherry St. - Suite 1500

Fort Worth, TX 76102-6881

RE: GISSLER B #88

Enclosed are the results of analyses for samples received by the laboratory on 01/27/15 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
JOHNNY TITSWORTH
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 01/27/2015
Reported: 01/29/2015
Project Name: GISSLER B #88
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 1 @ 1' (H500251-01)

BTX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/28/2015	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 96.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
JOHNNY TITSWORTH
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 01/27/2015
Reported: 01/29/2015
Project Name: GISSLER B #88
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 2 @ 1' (H500251-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/28/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	67.8	50.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	570	50.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 96.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 139 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
JOHNNY TITSWORTH
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 01/27/2015
Reported: 01/29/2015
Project Name: GISSLER B #88
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 3 @ 1' (H500251-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/28/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 97.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Burnett Oil Co., Inc
 JOHNNY TITSWORTH
 801 Cherry St. - Suite 1500
 Fort Worth TX, 76102-6881
 Fax To: None

 Received: 01/27/2015
 Reported: 01/29/2015
 Project Name: GISSLER B #88
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/27/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 4 @ 1' (H500251-04)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/28/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	62.4	50.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	566	50.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 126 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
JOHNNY TITSWORTH
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 01/27/2015
Reported: 01/29/2015
Project Name: GISSLER B #88
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 5 @ 1' (H500251-05)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/28/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 117 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
JOHNNY TITSWORTH
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 01/27/2015
Reported: 01/29/2015
Project Name: GISSLER B #88
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 6 @ 1' (H500251-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/28/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 98.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Burnett Oil Co., Inc
 JOHNNY TITSWORTH
 801 Cherry St. - Suite 1500
 Fort Worth TX, 76102-6881
 Fax To: None

 Received: 01/27/2015
 Reported: 01/29/2015
 Project Name: GISSLER B #88
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/27/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 7 @ 1' (H500251-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTEX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/28/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 98.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Burnett Oil Co., Inc
 JOHNNY TITSWORTH
 801 Cherry St. - Suite 1500
 Fort Worth TX, 76102-6881
 Fax To: None

 Received: 01/27/2015
 Reported: 01/29/2015
 Project Name: GISSLER B #88
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/27/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 8 @ 1' (H500251-08)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/28/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 97.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
JOHNNY TITSWORTH
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 01/27/2015
Reported: 01/29/2015
Project Name: GISSLER B #88
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 9 @ 2' (H500251-09)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/28/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Burnett Oil Co., Inc
JOHNNY TITSWORTH
801 Cherry St. - Suite 1500
Fort Worth TX, 76102-6881
Fax To: None

Received: 01/27/2015
Reported: 01/29/2015
Project Name: GISSLER B #88
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 10 @ 1' (H500251-10)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.67	83.4	2.00	9.24	
Toluene*	<0.050	0.050	01/28/2015	ND	1.63	81.4	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.55	77.4	2.00	9.75	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.67	77.8	6.00	9.79	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/28/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Burnett</u>		P.O. #:		BILL TO		ANALYSIS REQUEST																																							
Project Manager: <u>Mike Burton</u>		Company: <u>Burnett</u>		Address:																																									
City: _____ State: _____ Zip: _____		Attn: <u>Shirley Titusworth</u>		Address:																																									
Phone #: _____ Fax #: _____		City: _____		State: _____ Zip: _____																																									
Project #: _____		Project Owner: _____		City: _____																																									
Project Name: <u>Gissler Bgg</u>		State: _____		Zip: _____																																									
Project Location: _____		Phone #: _____		Fax #: _____																																									
Sampler Name: _____		FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																																					
Lab I.D. <u>H500251</u>		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME		C1		B1C1		T01											
1		SP1E1		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		10:02		X		X		X											
2		SP2E1		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		10:09		X		X		X											
3		SP3E1		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		10:13		X		X		X											
4		SP4E1		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		10:16		X		X		X											
5		SP5E1		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		10:18		X		X		X											
6		SP6E1		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		10:32		X		X		X											
7		SP7E1		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		11:03		X		X		X											
8		SP8E1		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		11:07		X		X		X											
9		SP9E2		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		11:31		X		X		X											
10		SP10E1		G 1		1		X		X		X		X		X		X		X		X		X		1-27-15		11:40		X		X		X											
Relinquished By: <u>[Signature]</u>		Date: <u>11/27/15</u>		Time: <u>1:35</u>		Received By: <u>[Signature]</u>		Date: <u>11/27/15</u>		Time: <u>1:35</u>		Relinquished By: <u>[Signature]</u>		Date: <u>11/27/15</u>		Time: <u>1:35</u>		Relinquished By: <u>[Signature]</u>		Date: <u>11/27/15</u>		Time: <u>1:35</u>		Relinquished By: <u>[Signature]</u>		Date: <u>11/27/15</u>		Time: <u>1:35</u>		Relinquished By: <u>[Signature]</u>		Date: <u>11/27/15</u>		Time: <u>1:35</u>											
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)		REMARKS:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																															
Sampler - UPS - Bus - Other: <u>4.22</u>		<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact		<u>4.22</u>		<u>StitsworthburneHoll.com</u>		<input type="checkbox"/> Yes <input type="checkbox"/> No		<u>mburnediv@stitsworthburneHoll.com</u>		<input type="checkbox"/> Yes <input type="checkbox"/> No		<u>mburnediv@stitsworthburneHoll.com</u>																															

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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